



Docket No. 2026-4253US7

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s): Witold CIEPLAK

Group Art Unit: 1653

Serial No.: 09/770,875

Examiner: G. E. Bugaisky

Filed: January 26, 2001

For: PERTUSSIS TOXIN GENE: CLONING AND EXPRESSION OF  
PROTECTIVE ANTIGEN

**AMENDMENT AND RESPONSE UNDER 37 C.F.R. §1.111**

Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

This Amendment is submitted in response to the non-final office action dated September 25, 2002 for the above-identified patent application. It is respectfully requested that the amendments and remarks herein be considered at the time of examination of the instant patent application.

In addition, a Petition for an Extension of Time (3 months) pursuant to 37 C.F.R. §1.136(a) and the required fee pursuant to 37 C.F.R. §1.17(b) are filed herewith to extend the time for response until March 25, 2003.

**IN THE SPECIFICATION**

Enclosed herewith are substitute pages 16, 16a, 16b, and 16c for original pages 16 and 16a.

Please amend and replace the paragraph as follows:

On page 24, line 30 through page 25, line 24, please replace the paragraph with the following:

*CL*  
The amino acid sequence for each subunit was deduced from the nucleotide sequence and is shown in Table 2. The mature proteins contain 234 amino acids for S1 (SEQ ID NO: 6), 199 amino acids for S2 (SEQ ID NO: 7), 110 amino acids for S4 (SEQ ID NO: 8), 100 amino acids for S5 (SEQ ID NO: 9) and 199 amino acids for S3 (SEQ ID NO: 10), in the order of the gene arrangement from the 5-end to the 3-end. Most likely all subunits contain

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